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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

Claims 1-56 (Canceled)

57. (Previously presented) A commercial-scale method for *in vitro* sialylation of terminal galactose residues on a glycoprotein, said method comprising contacting said glycoprotein with a reaction mixture that comprises a sialyltransferase, a sialic acid donor moiety, and other reactants required for sialyltransferase activity, for a sufficient time and under appropriate conditions to transfer sialic acid from said sialic acid donor moiety to said terminal galactose residues.

## 58. (Canceled)

- 59. (Previously presented) The method of claim 57, wherein a greater percentage of terminal galactose residues are sialylated compared to an unaltered glycoprotein.
- 60. (Previously presented) The method of claim 59, wherein at least 80% of the terminal galactose residues present on the glycoprotein are sialylated.
- 61. (Previously presented) The method of claim 60, wherein at least 90% of the terminal galactose residues present on the glycoprotein are sialylated.
- 62. (Previously presented) The method of claim 57, wherein the terminal galactose residues comprise one or more saccharides selected from the group consisting of

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Galβ1,4GlcNAc, Galβ1,4GalNAc, Galβ1,3GalNAc, Galβ1,3GlcNAc, Galβ1,3Ara, Galβ1,6GlcNAc, and Galβ1,4Glc.

- 63. (Previously presented) The method of claim 62, wherein the terminal galactose residues comprise Galβ1,4GlcNAc or Galβ1,3GlcNAc.
- 64. (Previously presented) The method of claim 63, wherein at least 80% of the terminal Galβ1,4GlcNAc residues present on the glycoprotein are sialylated.
- 65. (Previously presented) The method of claim 63, wherein at least 80% of the terminal Galβ1,3GlcNAc residues present on the glycoprotein are sialylated.
- 66. (Withdrawn) The method of claim 57, wherein the terminal galactose residues are present on an O-linked oligosaccharide.
- 67. (Previously presented) The method of claim 57, wherein the terminal galactose residues are present on an N-linked oligosaccharide.
- 68. (Currently amended) The method of claim 57, wherein the sialyltransferase includes a sialyl motif which has an amino acid sequence that is at least about 40% identical to SEQ ID NO: 1 a sialyl motif from a sialyltransferase selected from the group consisting of ST3Gal I, ST6Gal I, and ST3Gal III.
- 69. (Previously presented) The method of claim 68, wherein the sialyltransferase is an ST3Gal III.
- 70. (Previously presented) The method of claim 69, wherein the sialyltransferase is a rat ST3Gal III.

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71-100 (Canceled)

101. (Previously presented ) The method of claim 57, wherein the glycoprotein comprises an immunoglobulin.

102-111 (Canceled)

112. (New) The method of claim 57, wherein the sialyltransferase is recombinantly produced.